	ARMY RDT&E BUDGET ITEM JUSTIF	ICATIO	N (R-2	A Exhi	bit)	Fe	ebruary 2	003					
2 - Applied Research		PE NUMBER AND TITLE 0602785A - Manpower/Personnel/Trai Technology				PROJECT <b>790</b>							
	COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate				
790	PERSONNEL PERFORMANCE & TRAINING TECHNOLOGY	14367	13070	15548	15607	15897	16596	16847	17192				

A. Mission Description and Budget Item Justification: The objective of this program is to provide the scientific and technical basis for personnel selection, leader development, and training that will ensure that the human component of warfighting can maximize the benefit of transformations in advanced technologies, weapons, and equipment (e.g., Future Combat Systems) and can perform effectively in Objective Force operations. This applied research program will provide methods, techniques, and tools to improve the assignment procedures to ensure the right person is placed in the right job, develop improved methods for developing leader cognitive skills, and provide the behavioral science technologies required for the development of effective individual and collective (unit) training strategies. Research topics include training strategies for the digitized battlefield; strategies to maximize the training effects in simulated environments; optimum designs and utilization of simulators and training devices to achieve maximum learning at minimum cost; and modernization of the selection and classification systems to maintain warfighting capabilities for future forces. Beginning in FY 2004, a major thrust of this program will be to expand Leader Development applied research beyond the existing work on more effective methods to develop the critical thinking skills that leaders must have to make effective battlefield decisions in rapidly changing operational situations and in information-rich environments. Additional research will be initiated on developing the interpersonal skills needed by small unit leaders to rapidly form cohesive teams with continuously changing mission requirements and personnel turbulence, and to effectively operate with diverse groups (joint, multi-cultural, interagency, etc.); and on developing mentoring and coaching skills so leaders can support early development of leadership skills and adaptability in younger leaders. Research in this PE is consistent with the Army Science and Technology Are

This program does not contain Defense Emergency Response Funds.

BUDGET ACTIVITY  2 - Applied Research	Training	PROJE <b>790</b>	PROJECT <b>790</b>		
Accomplishments/Planned Program Personnel Selection and Assignment: In FY02, identified future-oriented job resystems will meet Objective Force operational requirements; determined the left ture; and identified potential ways to reduce the number of soldiers who enlistment. In FY03, identify knowledge, skills, and attributes needed for sold Objective Force); validate new screening tools for Army recruiters and quanticurrent recruiter selection system; assess recent technological advances in job. Army enlisted job certification measures. In FY04, identify and develop predivalidate new screening tools for station commanders and develop implemental screening batteries; and develop prototype job certification measures. In FY05 selection and classification system that can keep pace with changing job requitarianers and commanders to certify that soldiers qualify on the skills necessary	best predictor tools for building the NCO promotion system of bleave the Army before completing their first term of liers to successfully perform in future jobs (e.g., for the ify the amount of improvement offered by these tools over the skill performance certification and propose the design of ictors and measures of future enlisted soldier job performance; ation strategies for new recruiter and station commander 5, recommend procedures for a more flexible enlisted irements; begin a formal validation of a new system for	FY 2002 3659	FY 2003 3863	FY 2004 4075	FY 2005 3875

BUDGET ACTIVITY  2 - Applied Research	PE NUMBER AND TITLE 0602785A - Manpower/Personnel/ Technology	Fraining	PROJECT <b>790</b>			
Accomplishments/Planned Program (continued) Fraining: In FY02, determined the behaviors that need to be performed by compoperations and the best methods to accomplish the training; identified key C4IS proficiency for commanders and staffs operating advanced technology systems; systems with enhanced visual system; and evaluated techniques to train and assertionating of battlefield information. In FY03, incorporate advanced simulation nelicopters and test for improved performance, safety, and reduced costs; identify skills; identify methods to train small units to identify critical battlefield information. OFW); and develop preliminary metrics for assessing small unit soldier are as new systems are fielded. In FY04, identify the roles of simulators and live air aircrew training; formulate principles for training key C4ISR skills; and develop necesse situational awareness and avoid situational confusion. In FY05, evaluate programs; develop methods for training key C4ISR skills for FCS Unit of Action effective performance measurement in future environments. It will also tailor suffective performance measurement in future environments. It will also tailor suffective performance measurement in asymmetrical scenarios.	R skill requirements and preliminary measures of improved rotary-wing flight training intelligent tutoring ess situational awareness so small unit leaders can take full methods into new qualification instruction for OH-58D fy requirements for automated tools to measure C4ISR ation to fully utilize capabilities of evolving soldier systems and leader performance that are flexible enough to transition creaft within a model of simulation-intensive collective presented to improve small team battlefield visualization to the prototype simulation-intensive collective aircrew training on commanders and staffs; and formulate principles of accessful embedded training approaches to assess small unit	FY 2002 7080	FY 2003 7322	FY 2004 7410	FY 2005 7721	
Leader Development: In FY02, improved how thinking skills are developed for prototype "Think-Like-A-Commander" to train remote-linked decision groups. Interpersonal and teamwork skills using a mix of film, animation, and role playinteractive program to develop socially competent and conceptually adaptable leaverld operations. In FY05, test interactive tools to enhance team effectiveness to the commander (battalion and brigade) and team member intent and refine measures.	In FY03, assess the utility of developing leader ing innovations. In FY04, pilot test an experimental eaders and develop tools for assessing adaptability in real-through more accurate communication and understanding of	3628	1885	4063	4011	
		14367	13070	15548	15607	